

United States Department of Commerce National Institute of Standards and Technology

***Demonstrated Areas of Proficiency**

Mass

Echelon I	30 kg - 1 mg 50 lb - 0.001 lb
Echelon II	250 kg - 1 mg 2500 lb - 0.001 lb 8 oz - 0.03125 oz
Echelon III	500 kg - 1 mg 6000 lb - 0.001 lb 8 oz - 0.03125 oz
Weight Carts	≤ 6000 lb
Lottery Balls	

Volume

Gravimetric, I	50 L - 5 L 100 gal - 1 gill Small Volume Prover (SVP) 30 gal - 15 gal
Volume transfer, II	20 L, 7500 gal - 1 gal
Volume transfer, II (Field)	5 gal - 1 gal

Length

Steel tapes	30 m - 0.1 m, 112 ft - 1 ft
Rigid rules	1 m - 1 mm, 60 in - 1 in
Lottery Balls	

Temperature

Echelon III, IV	LIG - 30 °C - 230 °C, -22 °F - 446 °F PRT - 30 °C - 230 °C, -22 °F - 446 °F
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Grain Moisture

13 % - 23 %

~ Certificate of Measurement Traceability ~
for

North Carolina

a participant in the NIST Weights and Measures
Measurement Assurance Program for the Year(s)

2008 - 2009

The State standards are traceable to NIST and the laboratory has demonstrated* measurement proficiency through training and interlaboratory comparisons compliant to NIST HB 143:2007 (ISO/IEC 17025:2005).


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for the National Institute of Standards and Technology

Chief, Weights and Measures Division
Title

January 1, 2009 to December 31, 2009
Effective Date

